IN THE CLAIMS

Please amend the claims as follows

1. - 9. (Canceled)

- 10. (Previously Presented) A processor comprising:
 - a processor pipeline to output branch instruction addresses;
- a branch target buffer responsive to the branch instruction addresses, wherein the branch target buffer comprises branch target buffer records to map branch instruction addresses to branch target addresses, wherein the branch target buffer records comprise confidence counters to track a number of times branches associated with the branch target addresses are taken; and
- a presbyopic target buffer responsive to the branch target buffer, wherein the presbyopic target buffer comprises presbyopic target buffer records to map branch target addresses to subsequent branch target addresses;
- a cache memory to retrieve the instructions at the branch target addresses and the instructions at the subsequent branch target addresses;
 - a fetch buffer to receive the instructions at the branch target addresses;
- a prefetch stream buffer to receive the instructions at the subsequent branch target
- 11. (Canceled)
- 12. (Original) The processor of claim 10 wherein the presbyopic target buffer is configured to be recursively searched to predict a plurality of subsequent branch target addresses.
- 13. (Original) The processor of claim 10 wherein the presbyopic target buffer implements skip-adiacent mapping.

14. (Original) The processor of claim 10 wherein a complete branch target address is specified by a fixed number of bits, and the presbyopic target buffer includes mapping records that specify branch target addresses using less than the fixed number of bits.

15. - 25. (Canceled)

26. (Currently amended) A method comprising:

processing instructions in a processor pipeline, wherein the processing is to output branch instruction addresses

in a first branch target buffer that maps the branch instruction addresses to block entry addresses, searching for a first branch target buffer record having a branch instruction address that matches a current instruction address;

after the first branch target buffer record is found, incrementing a confidence counter in the first branch target buffer record and searching a second presbyopic target buffer that mans block entry addresses to subsequent block entry addresses for a second presbyopic target buffer record having a block entry address matching the first branch target buffer record; and

after the second presbyopic target buffer record is found, incrementing a confidence counter in the second presbyopic target buffer record and prefetching instructions beginning at a subsequent block entry address included in the second presbyopic target buffer record.

- 27. (Original) The method of claim 26 wherein prefetching comprises entering instructions into a stream buffer, the stream buffer having a coloring field for each instruction entered.
- 28. (Currently amended) searching the second presbyopic target buffer recursively; and for each matching record found in the second presbyopic target buffer, each matching record having a corresponding subsequent block entry address, prefetching instructions from

each of the corresponding subsequent block entry addresses.

The method of claim 26 further comprising:

29. (Original) The method of claim 28 wherein prefetching comprises:

entering instructions into a stream buffer, the stream buffer having a coloring field for each instruction entered: and

assigning a different color to instructions fetched from different subsequent block entry addresses.

- 30. (Original)The method of claim 29 wherein each recursive search represents a predicted branch, the method further comprising flushing from the stream buffer instructions prefetched as a result of a mispredicted branch.
- 31. (Previously presented) The processor of claim 10, wherein the presbyopic target buffer records comprise confidence counters to track a number of times branches associated with the subsequent branch target addresses are taken.